



Idaho Department of Environmental Quality **FINAL §401 Water Quality Certification**

April 13, 2007

NPDES Permit Number: **ID-G91-000** Groundwater Remediation Discharge Facilities in Idaho

Pursuant to the provisions of Section 401(a)(1) of the Federal Water Pollution Control Act (Clean Water Act), as amended, 33 USC Section 1341 (a)(1), the Idaho Department of Environmental Quality (IDEQ) has authority to review National Pollution Discharge Elimination System (NPDES) permits and issue a water quality certification decision.

IDEQ certifies that if the permittees comply with the terms and conditions imposed by the above-referenced permits along with the conditions set forth in this water quality certification, then there is reasonable assurance the discharges will comply with the applicable requirements of Sections 301, 302, 303, 306, and 307 of the Clean Water Act, including the Idaho Water Quality Standards (WQS) (IDAPA 58.01.02).

This certification does not constitute authorization of the permitted activities by any other state or federal agency or private person or entity. This certification does not excuse the permit holder from the obligation to obtain any other necessary approvals, authorizations or permits, including without limitation, the approval from the owner of a private water conveyance system, if one is required, to use the system in connection with the permitted activities.

CONDITIONS THAT ARE NECESSARY TO ASSURE COMPLIANCE WITH WATER QUALITY STANDARDS

Effluent limitations for hardness dependent metals

In order to assure compliance with Idaho WQS, effluent limitations for hardness-dependent metals should be based on the hardness of the receiving waters using the equations in Table 1 below (IDAPA 58.01.02.210.02). In addition, the effluent limitations at selected dilution ranges should also be dependent on the hardness of the receiving water.

Table 1: Calculation of Effluent Limitations (total recoverable) for Hardness-Dependent Metals

PARAMETER	Benchmark value (µg/L)
Cadmium ¹	$= \text{EXP}^{(0.6247 * \text{LN}(\text{hardness}) - 3.344)}$
Chromium (III)	$= \text{EXP}^{(0.819 * \text{LN}(\text{hardness}) + 0.6848)}$
Copper	$= \text{EXP}^{(0.8545 * \text{LN}(\text{hardness}) - 1.465)}$
Lead ²	$= \text{EXP}^{(1.273 * \text{LN}(\text{hardness}) - 4.705)}$
Nickel	$= \text{EXP}^{(0.846 * \text{LN}(\text{hardness}) + 0.0584)}$
Silver	$= \text{EXP}^{(1.72 * \text{LN}(\text{hardness}) - 6.52)}$
Zinc	$= \text{EXP}^{(0.8473 * \text{LN}(\text{hardness}) + 0.884)}$

EXP = base e exponential function; LN = natural logarithm

1. The calculation for the acute cadmium criterion is currently undergoing review at EPA.

2. A typographical error was discovered in the lead equation listed in the original certification. The information above represents the corrected equation as presented in IDAPA 58.01.02.210.02. EPA was notified of this in a letter dated April 27, 2007.

RIGHT TO APPEAL FINAL CERTIFICATION

This final Section 401 Water Quality Certification may be appealed by submitting a petition to initiate a contested case, pursuant to Idaho Code § 39-107(5), and the Rules of Administrative Procedure Before the Board of Environmental Quality, IDAPA 58.01.23, within 35 days of the date of this letter.

Questions regarding the actions taken in this letter should be directed to Johnna Sandow, IDEQ (State Office) at (208) 373-0163.



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